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Testing. Advising. Assuring.

**Title:**

CLASSIFICATION OF  
REACTION TO FIRE  
PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1:2007+A1: 2009.

**Notified Body No:**

0833

**Product Name:**

"SAFPRI40S21C"

**Report No:**

WF 406233

**Issue No:**

1

**Prepared for:**

Sapphire Balconies Limited  
11 Arkwright Road  
Berkshire  
RG2 0LU

**Date:**

23<sup>rd</sup> October 2018



## 1. Introduction

This classification report defines the classification assigned to "SAFPRI40S21C", a wood and plastic composite decking board fixed to a calcium silicate substrate, in accordance with the procedures given in EN 13501-1:2007+A1: 2009.

## 2. Details of classified product

### 2.1 General

The product, "SAFPRI40S21C", is defined as being suitable for floorcovering applications.

### 2.2 Product description

The product, "SAFPRI40S21C", is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Wood and plastic composite decking board fixed to a calcium silicate substrate utilising stainless steel screws.
Product reference		"SAFPRI40S21C"
Name of manufacturer		<b>See Note 1 Below</b>
Overall thickness		30.39mm (determined by <b>Exova Warringtonfire</b> )
Overall weight per unit area		30.60kg/m <sup>2</sup> (determined by <b>Exova Warringtonfire</b> )
Flooring	Generic type	Wood and plastic composite
	Product reference	"Enjura C116"
	Composition details	55%wood + 35%High density polyethylene +10% additives
	Name of manufacturer	Sapphire Balconies Ltd
	Thickness	21mm
	Density / weight per unit area	2.95kg/m <sup>2</sup>
	Colour reference	"Willow Tree Green"
Flame retardant details		<b>See Note 2 Below</b>
Substrate	Generic type	Calcium silicate board
	Product reference	"A1-1277"
	Name of manufacturer	Supalux
	Thickness	12mm
	Density / weight per unit area	11.4kg/m <sup>2</sup>
	Colour reference	"Grey"
	Flame retardant details	

Continued on next page

Metal screws	Generic type	Stainless steel CSK self-drilling screws
	Product reference	"SAP4982"
	Detailed description / composition details	Hardened 316L grade stainless steel
	Name of manufacturer	<b>See Note 1 Below</b>
	Thickness	3.7mm
	Density / weight per unit area	<b>See Note 1 Below</b>
	Colour reference	"Black"
	Flame retardant details	<b>See Note 2 Below</b>
Brief description of manufacturing process		Cold formed

**Note 1:** The sponsor of the test was unwilling to provide this information.

**Note 2:** The sponsor of the test has confirmed that no flame retardants were used in the production of this component.

### 3. Test reports & test results in support of classification.

#### 3.1 Test reports.

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Exova warringtonfire	Sapphire Balconies Limited	WF 405538	EN ISO 11925-2
Exova warringtonfire	Sapphire Balconies Limited	WF 404149 (Issue 2)	EN ISO 9239-1

#### 3.2 Test results

Test method & test number	Parameter	No. tests	Results		
			Continuous parameter - mean (m)	Compliance with parameters	
EN ISO 9239-1	Critical flux	3	5.32 kW/m <sup>2</sup>	Compliant	
	Smoke		28.44 %min	Compliant	
EN ISO 11925-2	(15s exposure – surface of decorative face)	F <sub>s</sub>	6	Nil	Compliant
		Flaming droplets/ particles		None	Compliant
	(15s exposure – edge of decorative face)	F <sub>s</sub>	6	Nil	Compliant
		Flaming droplets/ particles		None	Compliant

#### 4. Classification and field of application

##### 4.1 Reference of classification

This classification has been carried out in accordance with clause 9 of EN 13501-1:2007+A1:2009.

##### 4.2 Classification

The product, "SAFPRI40S21C", a wood and plastic composite decking board fixed to a calcium silicate substrate, in relation to its reaction to fire behaviour is classified:

**C<sub>FL</sub>**

The additional classification in relation to smoke production is:

**s1**

The format of the reaction to fire classification for floorings is:

Fire Behaviour		Smoke Production	
<b>C<sub>FL</sub></b>	-	<b>s</b>	<b>1</b>

i.e. **C<sub>FL</sub> – s1**

**Reaction to fire classification: C<sub>FL</sub> – s1**

##### 4.3 Field of application

This classification is valid for the following end use applications:

- i) Floorcovering applications mechanically installed to any substrate with a minimum density of 950kg/m<sup>3</sup>, having a minimum thickness of 12mm and a fire performance of A2<sub>FL</sub> or better.

This classification is also valid for the following product parameters:

Floorcovering thickness	No variation allowed
Floorcovering weight per unit area	No variation allowed
Floorcovering composition	No variation allowed
Floorcovering construction	No variation allowed
Colour/Pattern	Any variation allowed

## 5. Limitations

This document does not represent type approval or certification of the product.

### SIGNED

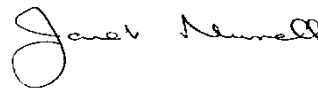


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### Matthew Dale

Senior Certification Engineer  
Technical Department

### APPROVED



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### Janet Murrell

Technical Manager  
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on behalf of **Exova warringtonfire**

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